



# STIC Search Report

EIC 3600

STIC Database Tracking Number: 107708

To: Rodger Pang  
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Art Unit : 3600  
Tuesday, June 28, 2005


Case Serial Number: 09/951765

From: Etelka R. Griffin  
Location: EIC 3600  
KNOX/4B68  
Phone: 571-272-4230

Etelka.griffin@uspto.gov

*Changed Serial to 667060*  
Search Notes

Pat#6546830

Source: [Legal](#) > [Area of Law - By Topic](#) > [Patent Law](#) > [Patents](#) > [U.S. Patents](#) > [Utility, Design and Plant Patents](#)   
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951765 (09) 6546830 April 15, 2003

UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT

**6546830**

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April 15, 2003

Transmission device of four-wheel drive vehicle

**APPL-NO:** 951765 (09)


**FILED-DATE:** September 13, 2001

**GRANTED-DATE:** April 15, 2003

**CORE TERMS:** shaft, gear, drive, input, rear, driven, counter, driving force, reduction, transmitted ...

**ENGLISH-ABST:**

A transfer drive gear is provided at the rear end of a hollow counter shaft disposed under an input shaft. A reduction driven gear is provided at the rear end of a front drive shaft inserted in the counter shaft. The transfer drive gear and the reduction driven gear are engaged with a transfer driven gear which is integrally formed with an intermediate output shaft and a reduction drive gear. The rear end side of the intermediate output shaft is coupled with the front end side of a rear drive shaft through a torque coupling device, so that an FF based on the four-wheel drive vehicle can be formed.

Source: [Legal](#) > [Area of Law - By Topic](#) > [Patent Law](#) > [Patents](#) > [U.S. Patents](#) > [Utility, Design and Plant Patents](#) 

Terms: **patno=6546830** ([Edit Search](#))

View: **Custom**

Segments: Abst, Date, English-abst, Granted-date, Reissue-comment

Date/Time: Tuesday, June 28, 2005 - 3:37 PM EDT

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1 / 1 PLUSPAT - @QUESTEL-ORBIT - image

**Patent Number :**

US2002066324 A1 20020606 [US20020066324]

**Patent Number 2 :**

US6546830 B2 20030415 [US6546830]

**Title :**

(A1) Transmission device of four-wheel drive vehicle

**Patent Assignee :**

(A1) FUJI HEAVY IND LTD (JP)

**Patent Assignee :**

Fuji Jukogyo Kabushiki Kaisha, Tokyo [JP]

**Patent Assignee 2 :**

(B2) FUJI HEAVY IND LTD (JP)

**Inventor(s) :**

(A1) KANAZAWA KAZUO (JP)

**Application Nbr :**

US95176501 20010913 [2001US-0951765]

**Priority Details :**

JP2000280602 20000914 [2000JP-0280602]

**Intl Patent Class :**

(A1) F16H-037/00 F16H-037/16

**EPO ECLA Class :**

B60K-017/344

B60K-017/35B1

B60K-023/08B

**US Patent Class :**

CROSS-REFERENCE (X) : 074333000

**Document Type :**

Corresponding document

**Citations :**

US4208923; US5123293; US5640882; US5947218; US6044720; US6332371;

JP7-167257; JP362178429

**Publication Stage :**

(A1) Utility Patent Application published on or after January 2, 2001

**Publication Stage 2 :**

(B2) U.S. Patent (with pre-grant pub.) after Jan. 2, 2001

**Abstract :**

A transfer drive gear is provided at the rear end of a hollow counter shaft disposed under an input shaft. A reduction driven gear is provided at the rear end of a front drive shaft inserted in the counter shaft. The transfer drive gear and the reduction driven gear are engaged with a transfer driven gear which is integrally formed with an intermediate output shaft and a reduction drive gear. The rear end side of the intermediate output shaft is coupled with the front end side of a rear drive shaft through a torque coupling device, so that an FF based on the four-wheel drive vehicle can be formed.

**Update Code :**

2002-25

1 / 1 LGST - @EPO

**Patent Number :**

US2002066324 A1 20020606 [US20020066324]

US6546830 B2 20030415 [US6546830]

**Application Number :**

US95176501 20010913 [2001US-0951765]

**Action Taken :**

20020111 US/AS-A

ASSIGNMENT

OWNER: FUJI JUKOGYO KABUSHIKI KAISHA 7-2, NISHISHINJUKU 1; EFFECTIVE

DATE: 20011228

1 / 1 INPADOC - @INPADOC

**Patent Number :**

US 6546830 BB 20030415 [US6546830]

**Title :**

TRANSMISSION DEVICE OF FOUR-WHEEL DRIVE VEHICLE

**Inventor(s) :**

KANAZAWA KAZUO [JP]

**Patent Assignee (Words) :**

FUJI HEAVY IND LTD [JP]

**Application Details :**

US 951765/01-A 20010913 [2001US-0951765]

**Priority Details :**

JP 2000280602/00-A 20000914 [2000JP-0280602]

**Intl. Patent Class. :**

F16H-037/06; F16H-003/08

1 / 1 LGST - @EPO

**Patent Number :**

US2002066324 A1 20020606 [US20020066324]

US6546830 B2 20030415 [US6546830]

**Application Number :**

US95176501 20010913 [2001US-0951765]

**Action Taken :**

20020111 US/AS-A

ASSIGNMENT

OWNER: FUJI JUKOGYO KABUSHIKI KAISHA 7-2, NISHISHINJUKU 1; EFFECTIVE

DATE: 20011228

ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNOR:KANAZAWA,  
KAZUO;REEL/FRAME:012472/0357

20031216 US/RF-A

REISSUE APPLICATION FILED

EFFECTIVE DATE: 20030908

**Update Code :**

2004-41

1 / 1 CRXX - @CLAIMS/RRX

**Patent Number :**

6,546,830 A 20030415 [US6546830]

**Patent Assignee :**

Fuji Jukogyo K K JP

**Actions :**

20030908 REISSUE REQUESTED

ISSUE DATE OF O.G.: 20031216

REISSUE REQUEST NUMBER: 10/657060

EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 3681

Reissue Patent Number:

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